



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

***Name of Work: Improvements and Asphaltting
to Cross Roads of Kempanna Layout (Reliance
Tower) in Ward No. 10 (Doddabommasandra),
Vidyaranyapura Sub Division.***

JOB CODE:

Estimated Cost: Rs. 15.00 Lakhs

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಯಲಹಂಕ ವಲಯ

ಬೆಂಗಳೂರು - 92.

ವರದಿ:

ವಿಷಯ: Improvements and Asphalting to Cross Road of Kempanna Layout
(Reliance Tower) in Ward No. 10, Doddabommasandra, Vidyaranyapura
Sub Divisionನ ಕಾಮಗಾರಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಅನುಮೋದನೆಗೆ
ಸಲ್ಲಿಸುವ ಬಗ್ಗೆ.

ಕಾಮಗಾರಿ ಸಂಕೇತ:

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗದ ವಾರ್ಡ್ ನಂ. 10ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಕೆಂಪಣ್ಣ ಬಡಾವಣೆ ರಿಯಲೇನ್ಸ್ ಟವರ್ ಅಡ್ಡರಸ್ತೆಗಳಿಗೆ ಡಾಂಬರೀಕರಣ ಅಳವಡಿಸುವ ಕಾಮಗಾರಿಗೆ 2013-14ನೇ ಸಾಲಿನ ಅನುದಾನದಡಿ ರೂ. 15.00 ಲಕ್ಷಗಳ ಅನುದಾನಕ್ಕೆ ಅನುಮೋದನೆಯಾಗಿರುತ್ತದೆ.

ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಕೆಂಪಣ್ಣ ಬಡಾವಣೆ ರಿಯಲೇನ್ಸ್ ಟವರ್ ಅಡ್ಡರಸ್ತೆಗಳು ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಬೆಂಗಳೂರು ಜಲಮಂಡಳಿ ರವರಿಂದ ಒಳಚರಂಡಿ ಕೊಳವೆ ಸಾಲುಗಳನ್ನು ಅಳವಡಿಸಲು ರಸ್ತೆಗಳನ್ನು ಅಗೆದಿದ್ದು, ಕೊಳವೆ ಸಾಲುಗಳನ್ನು ಅಳವಡಿಸಿ ಮಣ್ಣು ಸರಿಯಾಗಿ ಮುಚ್ಚದೆ ರಸ್ತೆಗಳು ಗುಂಡಿಗಳು ಹಾಗೂ ದೂಳಿನಿಂದ ಕೂಡಿರುತ್ತದೆ ಹಾಗೂ ಸಾರ್ವಜನಿಕರ ಸಂಚಾರಕ್ಕೆ ತುಂಬ ತೊಂದರೆಯಾಗಿರುತ್ತದೆ. ಹಾಗೂ ಅಡ್ಡರಸ್ತೆಗಳಿಗೆ ಅಡಿಗಾಲುವೆಗಳು ಇಲ್ಲದೆ ಚರಂಡಿಯ ನೀರುವ ರಸ್ತೆಯಲ್ಲಿ ಹರಿಯುತ್ತಿರುತ್ತದೆ. ಆದ್ದರಿಂದ ಸದರಿ ರಸ್ತೆಗಳನ್ನು ಅಭಿವೃದ್ಧಿ ಹಗೂ ಅಡಿಗಾಲುವೆಗಳ ನಿರ್ಮಿಸಲು ಸ್ಥಳೀಯ ಚುನಾಯಿತ ಪ್ರತಿನಿಧಿಗಳು ಕೋರಿರುವುದರ ಮೇರೆಗೆ 2013-14ನೇ ಸಾಲಿನ ಕಾರ್ಯಕ್ರಮದ ಯೋಜನೆಯಡಿ ಕಾಮಗಾರಿಯನ್ನು ಸೇರಿಸಿಕೊಂಡು ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಬೇಕಾಗಿರುತ್ತದೆ, ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಈ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜನ್ನು ತಯಾರಿಸಿ ಸಲ್ಲಿಸಲಾಗಿದೆ.

1. ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಅಡಿಗಾಲುವೆ ನಿರ್ಮಿಸಲು ಮಣ್ಣು ಅಗೆತದ ಕೆಲಸ ಮಾಡುವುದು.
2. ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಎಂ7.5 ಹಾಗೂ ಎಂ20 ಅಳವಡಿಸಿ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಅಡಿಗಾಲುವೆ ನಿರ್ಮಿಸಿ ಭಾವಣಿ ಹಾಕುವುದು.
3. ತಗ್ಗು ಪ್ರದೇಶದಲ್ಲಿನ ರಸ್ತೆಗಳನ್ನು ಗುಣಮಟ್ಟದ ವೆಟ್ ಮಿಕ್ಸ್ ಅಳವಡಿಸುವುದು.
4. ರಸ್ತೆಗೆ 25 ಎಂ.ಎಂ ದಪ್ಪದ ಎಸ್.ಡಿ.ಬಿ.ಸಿ ಯಿಂದ ಡಾಂಬರ್ ಮಾಡುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಅಂದಾಜನ್ನು 2013-14ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ದರಪಟ್ಟಿಯನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ರೂ. 15.00 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಿದ್ದು, 2013-14ನೇ ಸಾಲಿನ ಕಾರ್ಯಕ್ರಮದಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ ಕಾಮಗಾರಿ ಸಂಕೇತ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲು ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 10 (ದೊಡ್ಡಬೊಮ್ಮಸಂದ್ರ)
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ
ಬೃ.ಬೆಂ.ಮ.ಪಾ., ಬೆಂಗಳೂರು - 97.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Improvements and Asphaltting to Cross Roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Sl. No	Description	Unit	Estimate Cost:					1500000.00	
			No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 Page No. 152 / Item No. 19.2/ PWD SR 2013-14 For Asphaltting Road	Cum							
	1st Main		1	160.00	5.00	0.60	480.00		
	1st Cross		1	60.00	5.00	0.60	180.00		
	2nd Cross		1	65.00	5.00	0.60	195.00		
	3rd Cross		1	60.00	5.00	0.60	180.00		
	4th Cross		1	40.00	5.00	0.60	120.00		
	Concrete Culvert		4	7.00	1.20	1.20	40.32		
							1195.32	90.72	108439.00
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	90.72							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, coarse aggregates @ 0.85 cum and fine aggregates @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No. 12 / Item No. 4.3 PWD SR - 2013-14 For CC Drain	Cum							
			4	7.00	1.20	0.15	5.04		
							5.04	4290.84	21626.00
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	4290.84							
3	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No.17 / Item No. 4.31 PWD SR - 2013-14	Sqm							
	CC Culvert		4x4	7.00		0.90	100.80		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							100.80	271.08	27325.00
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	271.08							
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 Page No. 13 / Item No. 4.11 PWD SR - 2013-14	Cum							
	Bottom	4	7.00	1.20	0.20		6.72		
	Side Walls	4x2	7.00	0.23	0.90		11.59		
	Covering Slab	4	7.00	1.20	0.23		7.73		
							26.04	5639.76	146859.00
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	5639.76							
5	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.2 PWD SR 2013-14 TMT Bars Fe 500	Qntl							
		0.90	26.04				23.44		155218.0
							23.44	7450.92	174620.00
	Basic Rate	6899.00							
	Area Weightage 8%	551.92					20.83		
	Total	7450.92							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P.170 / I.20.18) PWD SR - 2013-14.	Cum							
	1st Main		1	160.00	5.00	0.15	120.00		
	1st Cross		1	60.00	5.00	0.15	45.00		
	2nd Cross		1	65.00	5.00	0.15	48.75		
	3rd Cross		1	60.00	5.00	0.15	45.00		
	4th Cross		1	40.00	5.00	0.15	30.00		
							288.75	1121.04	323700.00
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	1121.04							
7	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 (P.175 / I.21.1) PWDSR 2013-14	Sqm							
	1st Main		1	160.00	5.00		800.00		
	1st Cross		1	60.00	5.00		300.00		
	2nd Cross		1	65.00	5.00		325.00		
	3rd Cross		1	60.00	5.00		300.00		
	4th Cross		1	40.00	5.00		200.00		
							1925.00	10.53	20270.00
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	10.53							
8	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, Page No. 175 / Item No. 21.6/ PWD SR 2013-14	Sqm							
			Qty Vide Item No. 12				1925.00		
							1925.00	44.28	85239.00
	Basic Rate	41.00							
	Area Weightage @ 8%	3.28							
	Total	44.28							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. With 80/100 grade bitumen, No. 178 / Item No. 21.20.1/ PWD SR 2013-14	Cum							
	1st Main		1	160.00	5.00	0.025	20.00		
	1st Cross		1	60.00	5.00	0.025	7.50		
	2nd Cross		1	65.00	5.00	0.025	8.13		
	3rd Cross		1	60.00	5.00	0.025	7.50		
	4th Cross		1	40.00	5.00	0.025	5.00		
							48.13	9631.44	463513.00
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	9631.44							
10	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 197 / Item No. 24.15 PWD SR 2013-14	Sqm							
	Road Sides								
	1st Main		2	160.00	0.10		32.00		
	1st Cross		2	60.00	0.10		12.00		
	2nd Cross		2	65.00	0.10		13.00		
	3rd Cross		2	60.00	0.10		12.00		
	4th Cross		2	40.00	0.10		8.00		
	Center Line								
	1st Main		53	1.50	0.10		7.95		
	1st Cross		20	1.50	0.10		3.00		
	2nd Cross		22	1.50	0.10		3.30		
	3rd Cross		20	1.50	0.10		3.00		
	4th Cross		13	1.50	0.10		1.95		
							96.20	471.96	45403.00
	Basic Rate	437.00							
	Area Weightage @ 8%	34.96							
	Total	471.96							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
								1195.32	
								1335.55	82561.00
	Basic rate for haulage of materials as per item no.17.4 page 144) Rs. 2.00							72.71	86906.0
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	72.71							
	1.1. T P I Charges								15000
12	Miscellaneous and other Charges	L/S							445.00
									502.0
								Total	150000.00
(Rs. Fifteen Lakhs Only)									

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per P.W.D S.R of 2013-14.
- 3 This work included under 2013-14 POW.
- 4 The provisions were made in this estimate are necessary and adequate.
- 5 This works come under B.B.M.P. limits.

Zedhar
Assistant Engineer

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Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

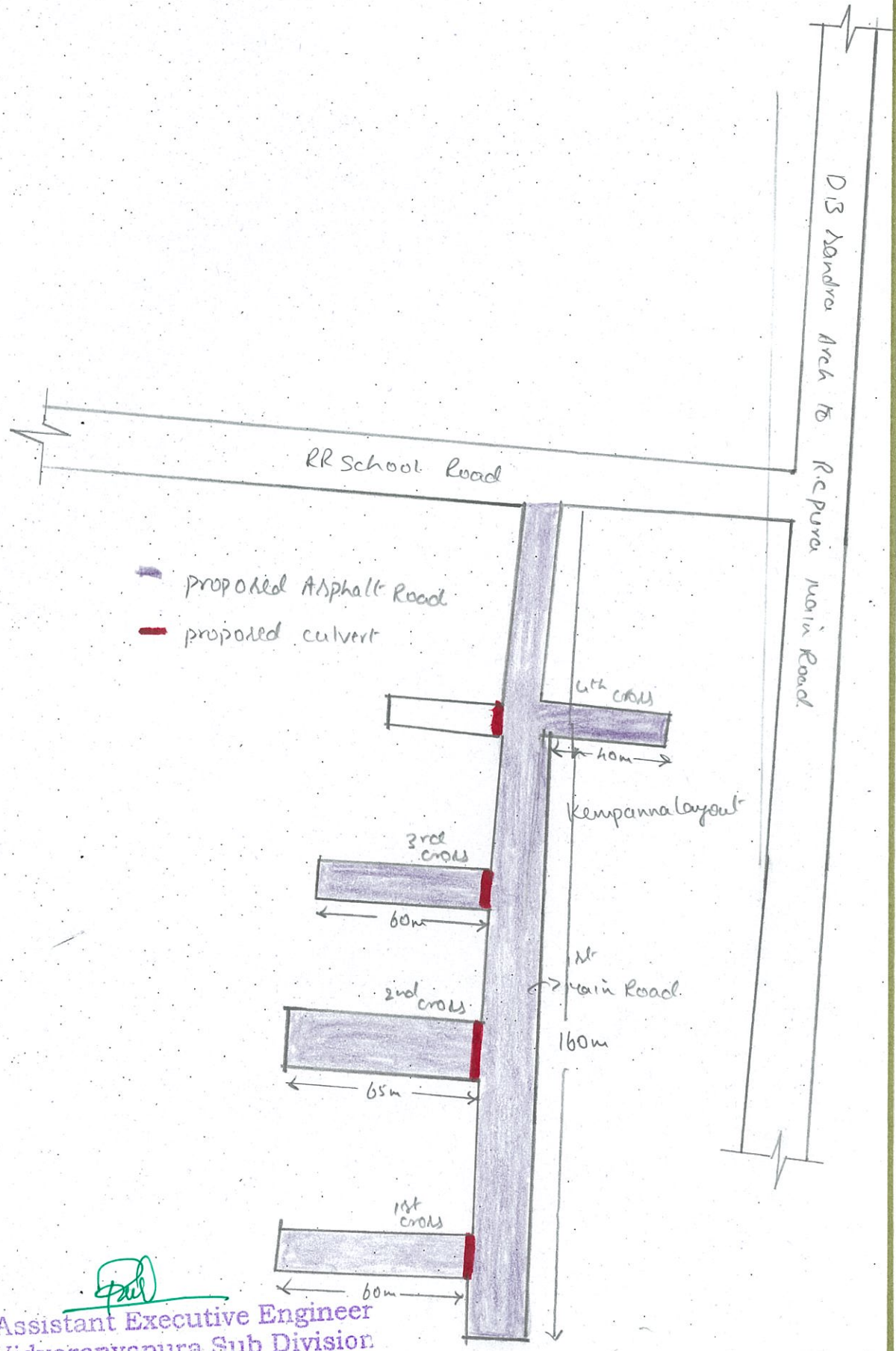
Dr. G. S. Srinivas
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs. 15 Lakhs
Rupees *Fifteen lakhs only*
Under *P-1771*
Registered as EE () No. *391/13-14*
Subject to conditions contained in
enclosed memo EE () No. *391/13-14*
Dt. *30/10/13* Estimate A/Sanctioned
No. *15-00 lakhs*
dated *30/10/13* Rs.

Dr. Srinivas
Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

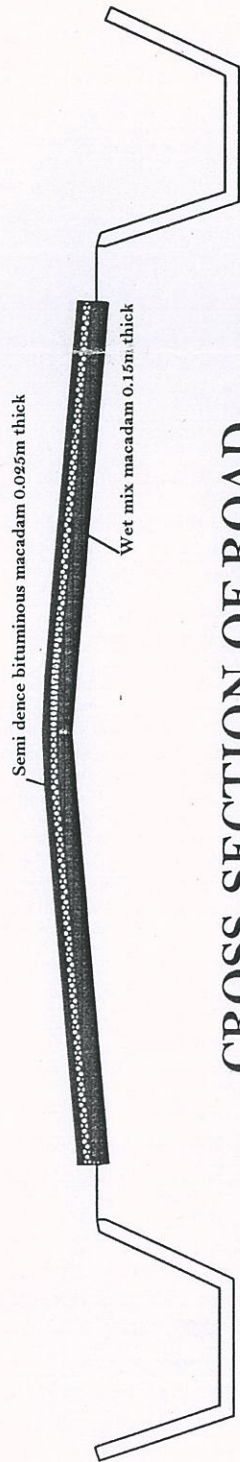
Technical Sanction for Rs. *15-00 Lakhs*
Rupees Fifteen Lakhs only
P-1771
Registered as EE No. *177/13-14* Dated *29/10/13*
to conditions contained enclosed memo. Subject
No. *177/13-14*
Dt. *29/10/13*
AE/EE
EE (BTP Div.)

Sketch for Improvements and Asphaltting to Cross Roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.



Zachan
AE


Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS-SECTION OF ROAD

INDEX

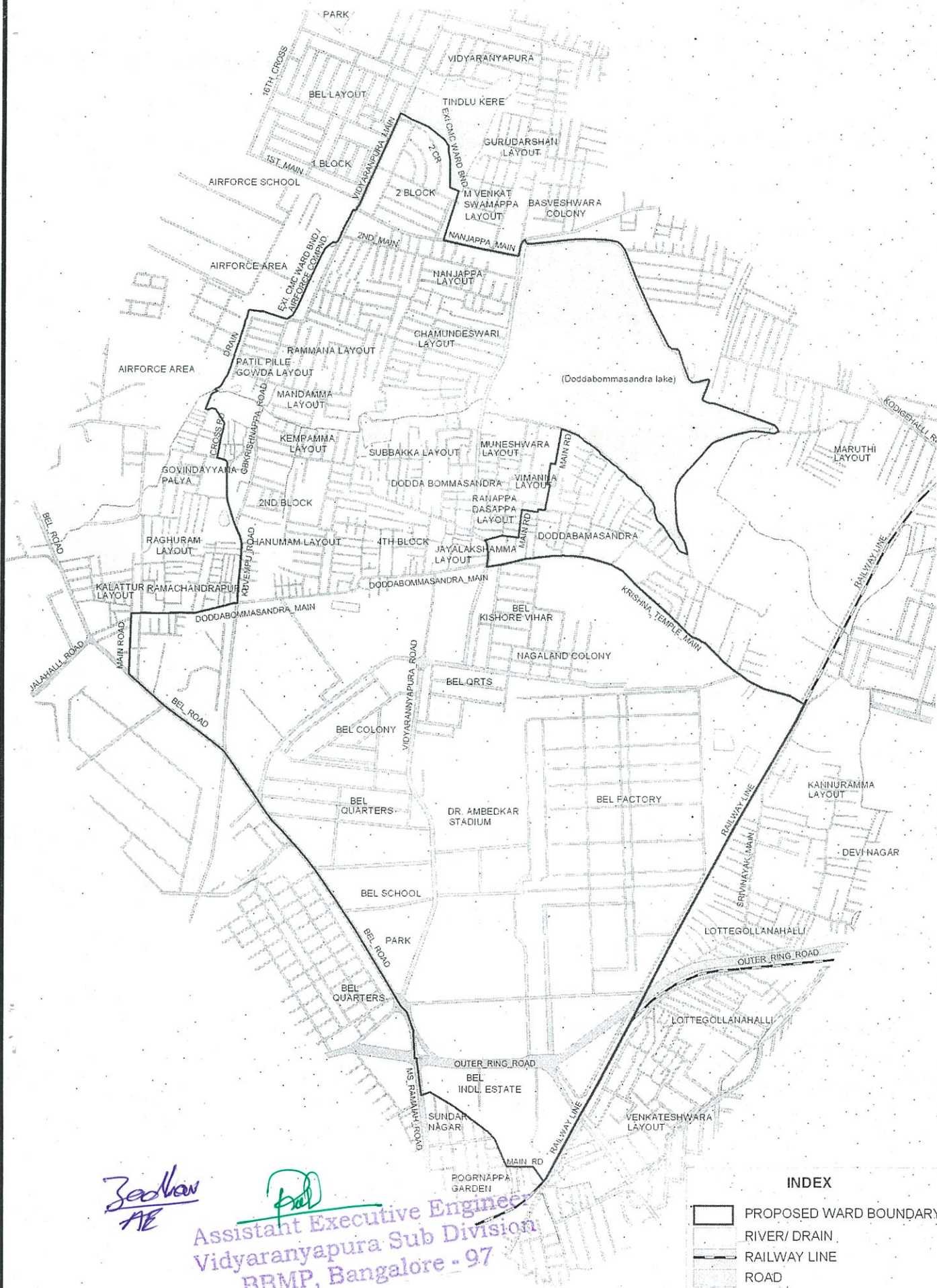
Wet mix macadam

Semi dense bituminous concret

Sachin
ASSISTANT ENGINEER

Pul

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.



Zeethan
AE

Assistaht Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

INDEX

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 PROPOSED WARD BOUNDARY
 RIVER/ DRAIN
 RAILWAY LINE
 ROAD